



# State Approved Courses

## Science, Technology, Engineering & Mathematics Programs

### School Year 2018-19

	Aviation Pathway	Engineering Pathway	Computer Science Pathway	Robotics Pathway	Energy Pathway
<b>Foundational CTE Courses</b>	Career Exploration (22151) Foundations of Technology (10004^*) Employability (22152^*) Leadership & Service (22101^*) Entrepreneurship (12053)				
<b>Cluster Courses</b>	MS Mechatronics/Robotics (21049) MS Introduction to STEM (21050) PLTW MS Engineering (21000) Introduction to Technology Education (21051)				
<b>Pathway Courses</b>	Aviation (20053)  *Aerospace Engineering (21019)        *PLTW COURSES	Electronics (17106)  Introduction to Engineering (21001)  Introduction to Manufacturing (13001)  Intro to Drafting & Design (21102)  Architectural Drafting & Design (21103)  Mechanical Drafting & Design (21106)  Bioprocess Engineering (21014)	*Intro to Engineering & Design (21017)  *Principles of Engineering (21018)  *Digital Electronics (21023)  *Civil Engineering & Architecture (21021)    *PLTW COURSES	Computer Programming I & II (10152)  *Computer Science Essentials (10013)        *PLTW COURSES	Electronics (17106)  Engineering Design & Development (21007)   Computer Programming (10152)  Robotics (21009)  Alternate Energy Systems (21060)
<b>Dual Credit Courses</b>	Visit <a href="http://www.sdmylife.com">www.sdmylife.com</a> for a full list of dual credit courses in the STEM Career Cluster.				
<b>Academic Courses</b>	Physical Science (03159^*) Biology (03051^*) Biology-Advanced Studies (03052) Chemistry (03101^*) Geometry (02072^*) Trigonometry (02103) Calculus (02121) Physics (03151) <i>*.5 credits of relevant academic coursework can be counted toward students' 2-credit concentrator status</i>				
<b>Capstone Courses</b>	Entrepreneurship Experience (80026) Senior Experience (80019^*) Service Learning (22104) Youth Internships (80018^*) Youth Apprenticeship (80020) <i>*Up to 1 credit of capstone coursework can be counted towards students 2-credit concentrator status</i>				